

Recovery Plan Action Status

Plan Name: Cui-ui (Chasmistes cujus) Recovery Plan, Second Revision

Plan Status: Final Revision 2

Plan Date: 15-May-92

Lead Agency: USFWS

Lead Office: Nevada Fish And Wildlife Office

(775)
861-6300)

| Species | Action Priority # | Action # | Action Description | Action Status | Est. Initiation Date | Est. Completion Date | Responsible Parties | Work Type | Labor Type | Action Comments |
|---------------------------|-------------------|----------|---|-----------------|----------------------|----------------------|--|--|--|---|
| Cui-ui (Chasmistes cujus) | 1 | 111 | Develop action plan for lower Truckee River flows | Complete | FY 1995 - FY 1999 | FY 2000 - FY 2004 | Pyramid Lake Paiute Indian Tribe, FWS-Nevada Fisheries Resource Office | Management: Planning | Contract | |
| Cui-ui (Chasmistes cujus) | 1 | 112 | Implement action plan for lower Truckee River flows | Ongoing Current | FY 2000 - FY 2004 | | State of Nevada, State of California, Pyramid Lake Paiute Indian Tribe, U.S. Bureau of Reclamation, FWS-Nevada Fisheries Resource Office | Management: Other | Internal Field Assistance | |
| Cui-ui (Chasmistes cujus) | 2 | 1211 | Develop plan to improve intergravel environment | Obsolete | | | U.S. Army Corps of Engineers | Management: Habitat Maintenance and Manipulation, Management: Propagation | Contract, Graduate Student, Species Expert | Lower Truckee River habitat has improved significantly and this is no longer a threat or issue. |
| Cui-ui (Chasmistes cujus) | 2 | 1212 | Implement plan to improve intergravel environment | Obsolete | | | U.S. Army Corps of Engineers | Management: Habitat Maintenance and Manipulation, Management: Propagation, Research: Habitat Requirements, Research: Propagation | Contract, Graduate Student, Species Expert | See comment in Task 1211. |
| Cui-ui (Chasmistes cujus) | 1 | 1221 | Develop plan to re-establish riparian vegetation | Ongoing Current | FY 1995 - FY 1999 | | Pyramid Lake Paiute Indian Tribe, FWS-Nevada Fisheries Resource Office | Management: Habitat Maintenance and Manipulation | Contract | |
| Cui-ui (Chasmistes cujus) | 1 | 1222 | Implement plan to re-establish riparian vegetation | Ongoing Current | FY 1995 - FY 1999 | | Pyramid Lake Paiute Indian Tribe, FWS-Nevada Fisheries Resource Office | Management: Habitat Maintenance and Manipulation | Contract | |

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| Cui-ui (Chasmistes cujus) | 1 | 1231 | Develop plan to improve fish passage over the delta | Obsolete | | | U.S. Army Corps of Engineers | Management: Habitat Maintenance and Manipulation, Management: Propagation | Contract, Graduate Student, Species Expert | Truckee River inflows and Pyramid Lake elevation need to keep at acceptable levels or higher to correct delta passage problems |
| Cui-ui (Chasmistes cujus) | 1 | 1232 | Implement plan to improve fish passage over the delta | Obsolete | | | U.S. Army Corps of Engineers | Management: Habitat Maintenance and Manipulation, Management: Propagation, Research: Habitat Requirements, Research: Propagation | Contract, Graduate Student, Species Expert | see task 1231 |
| Cui-ui (Chasmistes cujus) | 2 | 131 | Continue nutrient study of Pyramid Lake | Ongoing Current | FY 2005 | | Pyramid Lake Paiute Indian Tribe, Washoe County Department of Water Resources, U.S. Environmental Protection Agency | Management: Other | Contract | |
| Cui-ui (Chasmistes cujus) | 2 | 132 | Determine impact of river TDS | Ongoing Current | Prior to FY 1995 | | Pyramid Lake Paiute Indian Tribe, U.S. Geological Survey, Biological Resources Division, U.S. Geological Survey | Research: Environmental Contaminants | Contract | |
| Cui-ui (Chasmistes cujus) | 2 | 133 | Develop Truckee River water quality model | Unknown | | | Nevada Division of Environmental Protection, U.S. Environmental Protection Agency | Management: Other | Contract | |
| Cui-ui (Chasmistes cujus) | 2 | 1341 | Ensure compliance with wastewater permit condition | Ongoing Current | Prior to FY 1995 | | U.S. Fish and Wildlife Service, Ecological Services Division, Pyramid Lake Paiute Indian Tribe, Nevada Division of Environmental Protection | Management: General | Internal Administrative | Wastewater permits are regulated under applicable State and Federal laws. |
| Cui-ui (Chasmistes cujus) | 2 | 13421 | Identify detrimental non-point sources | Unknown | | | U.S. Fish and Wildlife Service, Ecological Services Division, Pyramid Lake Paiute Indian Tribe, Nevada Division of Environmental Protection | Research: Environmental Contaminants | Internal Administrative | |

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| Cui-ui (Chasmistes cujus) | 2 | 13422 | Develop plan to eliminate detrimental non-point sources | Unknown | | | U.S. Fish and Wildlife Service, Ecological Services Division, Washoe County Department of Water Resources | Research: Environmental Contaminants | Internal Field Assistance | |
| Cui-ui (Chasmistes cujus) | 2 | 13423 | Implement plan to eliminate detrimental non-point sources | Unknown | | | U.S. Fish and Wildlife Service, Ecological Services Division, Washoe County Department of Water Resources | Management | Internal Field Assistance | |
| Cui-ui (Chasmistes cujus) | 2 | 1411 | Develop plan to improve Marble Bluff Fish Facility | Ongoing Current | FY 1995 - FY 1999 | | U.S. Bureau of Reclamation, FWS-Nevada Fisheries Resource Office | Management: Other | Contract, Internal Field Assistance, Internal Technical Assistance, Species Expert | A fish lock was designed and completed for river passage but the fish ladder is only partially complete. |
| Cui-ui (Chasmistes cujus) | 2 | 1412 | Implement plans to improve Marble Bluff Fish Facility | Ongoing Current | FY 1995 - FY 1999 | | U.S. Bureau of Reclamation, FWS-Nevada Fisheries Resource Office | Management: Habitat Maintenance and Manipulation, Management: Other | Internal Field Assistance, Internal Technical Assistance, Species Expert | Fish lock has been operated for river passage for each spawning run to date but the fishway still needs to be addressed. |
| Cui-ui (Chasmistes cujus) | 2 | 1421 | Design plan to improve Numana Dam Fish Ladder | Discontinued | FY 2000 - FY 2004 | | Pyramid Lake Paiute Indian Tribe, U.S. Bureau of Reclamation, U.S. Army Corps of Engineers, FWS-Nevada Fisheries Resource Office | Management: Habitat Maintenance and Manipulation | Internal Field Assistance | Efforts are underway for removal of this dam. |
| Cui-ui (Chasmistes cujus) | 2 | 1422 | Implement plan to improve Numana Dam Fish Ladder | Discontinued | FY 2000 - FY 2004 | | Pyramid Lake Paiute Indian Tribe, U.S. Bureau of Reclamation, U.S. Army Corps of Engineers, FWS-Nevada Fisheries Resource Office | Management: Habitat Maintenance and Manipulation | Contract | See comment in Task 1421 |
| Cui-ui (Chasmistes cujus) | 1 | 21 | Collect data on impacts of conservation measures | Ongoing Not Current | Prior to FY 1995 | | State of Nevada, State of California, Pyramid Lake Paiute Indian Tribe, U.S. Bureau of Reclamation, U.S. Department of Interior, FWS-Nevada Fisheries Resource Office | Management | Contract | |

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| Cui-ui (Chasmistes cujus) | 2 | 221 | Update hydrologic data base | Ongoing Current | FY 2000 - FY 2004 | | Pyramid Lake Paiute Indian Tribe, U.S. Bureau of Reclamation, U.S. Geological Survey, FWS-Nevada Fisheries Resource Office | Management: Habitat Maintenance and Manipulation | Internal Field Assistance | |
| Cui-ui (Chasmistes cujus) | 2 | 222 | Increase knowledge of existing river conditions | Ongoing Current | FY 2000 - FY 2004 | | Pyramid Lake Paiute Indian Tribe, FWS-Nevada Fisheries Resource Office | Management: Habitat Maintenance and Manipulation | Contract | |
| Cui-ui (Chasmistes cujus) | 2 | 2231 | Study relation between river discharge and cui-ui attraction | Ongoing Current | FY 2000 - FY 2004 | | U.S. Geological Survey, Biological Resources Division, FWS-Nevada Fisheries Resource Office | Management: Other | Internal Field Assistance, Internal Technical Assistance, Species Expert | This work was initiated in 2002 with implementation of the Variable Instream Flow Strategy. A valuable data point was added in 2007 due to the drought water year. |
| Cui-ui (Chasmistes cujus) | 2 | 2232 | Study relation of river flow and water temperature | Ongoing Current | FY 2000 - FY 2004 | | FWS-Nevada Fisheries Resource Office | Management: Other | Internal Field Assistance, Internal Technical Assistance, Species Expert | This work was initiated in 2002 with implementation of the Variable Instream Flow Strategy. A valuable data point was added in 2007 due to the drought water year. |
| Cui-ui (Chasmistes cujus) | 2 | 2233 | Refine knowledge of cui-ui spawning habitat | Not Started | | | U.S. Geological Survey, Biological Resources Division | Management: Habitat Maintenance and Manipulation, Management: Propagation, Research: Habitat Requirements, Research: Propagation | Internal Field Assistance, Internal Technical Assistance, Species Expert | Curently, there is no evidence that indicates water quality in the river is potentially limiting cui-ui recovery. |
| Cui-ui (Chasmistes cujus) | 2 | 224 | Refine estimates of cui-ui survival | Ongoing Current | FY 2006 | | U.S. Geological Survey, Biological Resources Division | Management: Habitat Maintenance and Manipulation | Contract | |
| Cui-ui (Chasmistes cujus) | 1 | 225 | Describe genome | Complete | Prior to FY 1995 | Prior to FY 1995 | FWS-Nevada Fisheries Resource Office | Management | Contract | |

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| Cui-ui (Chasmistes cujus) | 1 | 226 | Determine impact of spawning frequency on genome | Obsolete | | | U.S. Geological Survey, Biological Resources Division, FWS-Nevada Fisheries Resource Office | Management: Other | Internal Field Assistance, Internal Technical Assistance, Species Expert | Have been implementing the 1996 recommendations of frequent spawning runs and passing as many spawners as possible during each run. |
| Cui-ui (Chasmistes cujus) | 2 | 227 | Refine knowledge of cui-ui rearing habitat | Ongoing Current | Prior to FY 1995 | | U.S. Geological Survey, Biological Resources Division | Management: Habitat Maintenance and Manipulation | Contract | |
| Cui-ui (Chasmistes cujus) | 2 | 31 | Evaluate benefits of implement conservation measures | Obsolete | | | U.S. Bureau of Reclamation, U.S. Fish and Wildlife Service | Management: Habitat Maintenance and Manipulation, Management: Other, Management: Planning, Management: Propagation | Internal Field Assistance, Internal Technical Assistance, Species Expert | The cui-ui model used for the recovery plan is no longer valid based on new information about cui-ui life history, population numbers, and water flow management. |
| Cui-ui (Chasmistes cujus) | 2 | 32 | Establish priorities for proposed conservation measures | Not Started | | | U.S. Bureau of Reclamation, U.S. Geological Survey, Biological Resources Division, FWS-Nevada Fisheries Resource Office | Management: Habitat Maintenance and Manipulation, Management: Other, Management: Planning, Management: Propagation | Internal Field Assistance, Internal Technical Assistance, Species Expert | A new cui-ui model recently developed will be used for this task upon its accepted publication. |
| Cui-ui (Chasmistes cujus) | 1 | 411 | Maintain dedicated storage reservoirs | Ongoing Current | Prior to FY 1995 | | U.S. Bureau of Reclamation | Management: Planning | Internal Administrative | |
| Cui-ui (Chasmistes cujus) | 1 | 4121 | Develop annual plan for release of water for spawning run | Ongoing Current | FY 2006 | | Pyramid Lake Paiute Indian Tribe, U.S. Bureau of Reclamation, Federal Water Master [Truckee River], FWS-Nevada Fisheries Resource Office | Management: Other | Internal Technical Assistance | |
| Cui-ui (Chasmistes cujus) | 1 | 4122 | Implement annual plan for release of water for spawning run | Ongoing Current | Prior to FY 1995 | | Pyramid Lake Paiute Indian Tribe, U.S. Bureau of Reclamation, Federal Water Master [Truckee River], FWS-Nevada Fisheries Resource Office | Management: Other | Internal Field Assistance | |

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| Cui-ui (Chasmistes cujus) | 1 | 421 | Maintain lower Truckee River fish passage facilities | Ongoing Current | FY 1995 - FY 1999 | | Pyramid Lake Paiute Indian Tribe, U.S. Bureau of Reclamation, FWS-Nevada Fisheries Resource Office | Management: Propagation | Internal Field Assistance | Marble Bluff Fish Facility is operated and maintained yearly. Passage at Numana Dam is inadequate and maintenance of the fish passage facility is neither funded nor maintained by BIA. |
| Cui-ui (Chasmistes cujus) | 1 | 4221 | Develop annual operating plan for spawning run | Ongoing Current | FY 1995 - FY 1999 | | Pyramid Lake Paiute Indian Tribe, FWS-Nevada Fisheries Resource Office | Management: Other | Internal Field Assistance, Internal Technical Assistance, Species Expert | Marble Bluff Fish Facility has an operational plan and procedures, Numana Dam fish passage does not. |
| Cui-ui (Chasmistes cujus) | 1 | 4222 | Implement annual operating plan for spawning run | Ongoing Current | FY 1995 - FY 1999 | | Pyramid Lake Paiute Indian Tribe, FWS-Nevada Fisheries Resource Office | Management: Other | Internal Field Assistance | Marble Bluff Fish Facility is operated annually and Numana Dam fish passage is not. |
| Cui-ui (Chasmistes cujus) | 2 | 431 | Conduct annual monitoring program | Ongoing Current | FY 1995 - FY 1999 | | U.S. Geological Survey, Biological Resources Division, FWS-Nevada Fisheries Resource Office | Management: General | Internal Field Assistance | BRD is responsible for the annual estimates of prespawning aggregate size and recruitment to the population. FWS-NFRO is responsible for estimating the number of upstream migrants. Number of upstream migrants was estimated in 2007 but the pre-spawning aggregate was not. |
| Cui-ui (Chasmistes cujus) | 2 | 432 | Conduct five-year monitoring program | Ongoing Current | FY 2000 - FY 2004 | | U.S. Geological Survey, Biological Resources Division, FWS-Nevada Fisheries Resource Office | Management | Internal Field Assistance | |
| Cui-ui (Chasmistes cujus) | 2 | 511 | Maintain rotating brood stock | Ongoing Current | Prior to FY 1995 | | Pyramid Lake Paiute Indian Tribe | Management: Propagation | Internal Field Assistance | |

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| Cui-ui (Chasmistes cujus) | 2 | 512 | Evaluate effectiveness of hatchery operation | Obsolete | | | Pyramid Lake Paiute Indian Tribe | Management: Propagation | Internal Field Assistance, Internal Technical Assistance | The number of cui-ui released by the Hatchery does not influence the lake population because the numbers released are so few compared to a spawning run with millions of larvae produced. |
| Cui-ui (Chasmistes cujus) | 3 | 521 | Identify potential sources of toxic spill | Unknown | | | Nevada Division of Environmental Protection, U.S. Fish and Wildlife Service | Management | Internal Administrative | |
| Cui-ui (Chasmistes cujus) | 3 | 522 | Develop spill prevention and remediation plan | Unknown | | | Nevada Division of Environmental Protection, U.S. Fish and Wildlife Service | Management | Internal Administrative | |
| Cui-ui (Chasmistes cujus) | 3 | 523 | Implement spill prevention and remediation plan | Ongoing Current | FY 2000 - FY 2004 | | Pyramid Lake Paiute Indian Tribe, Nevada Division of Environmental Protection, U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency | Management | Internal Field Assistance | |